S&V 1994 Index

This is the cumulative index for Volume 28 of Sound and Vibration. January 1994 through December 1994. The index is divided into three parts: a chronological index of major editorial items and authors in order of publication in each issue; a subject index citing month of publication in each issue; and an authors index citing month of publication. The editorial items listed in the chronological index include: Editorials, S&V Observer items of significant interest, and all articles. These listings are cross-referenced to the subject and author indexes.

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Real-Time Signal Processing for a Jet Engine Vibration Test System, Stephen A. Schuster and Willi Jurgeleit
Calibration and Application of Structural Intensity Probes, Svend

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February 1994

Research Is Not a Dirty Word, John F. Frarey
Boise Cascade Uses Machinery Monitoring System to Avoid Catastrophic Failures, Gaines Reynolds and Tony Coley

Demodulation Analysis for Monitoring Slow-Speed Machinery, John

Synchronous Averaging Analysis of Diesel Engine Turbocharger Vibration, Brian K. Wilson

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In Search of Common Sense, Chris D. Powell

Mining Problems Addressed with Signal Analysis, Terry L. Nichols and

The Concept and Performance of Active Constrained Layer Damping Treatments, Amr M. Baz and Jeng-Jong Ro Motor Vehicle Noise Regulations - A Solution to the Traffic Noise Prob-

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Dynamic Measurement Instrumentation Buyer's Guide

"Once Is Not Enough" - A Few More Thoughts, Robert S. Thomas and Thomas W. Nolan

Atlas Under Stress, Rick Smith and Tim Snow

Defying Gravity with Active Test Article Suspension Systems, David A.

Is Uniformity and Repeatability Essential to Vibration and Temperature Screening?, Gregg K. Hobbs and Harry McLean

Keeping Things as Simple as Possible, but No Simpler, Nelson Baxter Expert System for Precision Machine Tool Diagnostics, Joe Van Dyke On-Site Modal Testing of Low Pressure Turbine Blade Rows, Michael J. Roemer, Stephen H. Hesler and Neville F. Rieger

A Guide to the Interpretation of Machinery Vibration Measurements -Part I, Robert M. Jones

June 1994

Doing the "Wright Thing," Steve Kensinger Comparative and Experimental Analysis Speeds Powertrain Design, Dennis Zuccaro

Using Design Optimization in Modal Testing and Analysis, Ken Blakely, Ken Ranger, Mark Kenyon and Suzanne Rice

The Use of Resilient Bearing Supports for High Speed Rotors, Richard M. Lyon and Leonid M. Malinin

Future Shock - The Noise and Vibration Information Explosion, Malcolm J. Crocker

Innovations in Beam Testing of Damping Materials, Matthew F. Kluesener

Active HVAC Noise Control Systems Provide Acoustical Comfort, Howard K. Pelton, Steve Wise and William S. Sims

Effects of Seismic Inputs on Resiliently Mounted Mechanical Equipment, Patrick J. Lama An Acoustical Checklist for Multi-Family Housing Units, Robin M.

Buyer's Guide to Products for Noise and Vibration Control

Virtual Prototyping, Mark C. Rodamaker

The Beat Goes On, Marvin Stone

The Analysis of Nonstationary Dynamic Signals, Jan Leuridan, Herman Van der Auweraer and Havard Vold

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Is the Quality of Information Related to Its Dimension?, Raj Singh PC-Based Vibration Test System Controllers, Steve Shaffer and Ira

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PRODUCTS AND LITERATURE

Laser Vibrometer

Series 4000 Rotational Laser Vibrometer is designed for noncontact angular and torsional vibration measurements on a wide range of rotating parts. This system operates directly on untreated surfaces. The Series 4000 Rotational Laser Vibrometer comprises the OFV-400 optical sensor head with an innovative doubleinterferometer design, and the OFV-4000 control and processing electronics with separate analog output of both AC (vibration) and DC (RPM) signals. Angular vibrations can be measured on any rotational speed between -7000 and + 11000 RPM, up to 7500°/sec and up to 9 kHz. Additional features include large signal/noise ratio, high linearity, IEEE and RS-232 interfaces, large LCD display for set-up and RPM, simple menu-driven operation and 32 selectable high and low pass filters. Polytec PI, Auburn, MA.

Circle 201 on Inquiry Card

Acoustical Panels

Δ

Fabri-Tough™ Wall Panel System combines abuse resistance and sound absorption with an attractive fabric wrap, providing a more decorative look. Fabri-Tough Panels present a flame spread of 25 or less under the ASTM E84 test method and meet the requirements of

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- · Affordable pricing schedule.

SSD Engineering Consultants 1600 Riviera Ave., Suite #300 Walnut Creek, CA 94596

Ph 510-933-1930 or Fax 510-933-1920

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the room corner fire test (UBC 42-2 or equivalent). Flexible and easy to mount, Fabri-Tough wall panels come in a variety of lengths and a wide range of decorator colors are available. Tectum, Inc., Newark, OH.

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Sine Controller

The SG-135 is a high quality sine signal source with simultaneous manual control of frequency and amplitude that is adaptable to almost any test situation. An acceleration input channel is provided to facilitate testing to specific acceleration levels. Full manual control is enhanced by separate front panel frequency and signal gain controls. Frequency adjustment is logarithmic from 1.0 Hz to 10 kHz in one continuous range with an automatic linear fine adjustment mode. Two independent meters display both frequency and acceleration at all times allowing instantaneous assessment of the test status. The four digit frequency meter shows output frequency with 0.2 Hz resolution below 1 kHz and 1.0 Hz resolution above 1 kHz. The built-in acceleration monitor takes either voltage calibrated acceleration signals or integral electronics accelerometers directly and displays the monitored acceleration up to 100 g pk. Labworks Inc., Costa Mesa, CA.

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Industrial Accelerometer

A quartz, shear-mode, precision industrial accelerometer has been introduced. The quartz sensing elements provide the high degree of stability required for longterm diagnostics and trending. Wide frequency response allows for detection and identification of antifriction bearing and gear mesh malfunctions. Unique K-SHEAR® design eliminates high transient temperature and base strain sensitivity. Unit utilizes the widely accepted MIL-C-5015 top connector. The 8752A50 has a frequency response of 0.5 Hz to 12 kHz and with an acceleration range of ±50 g and a sensitivity of 100 mV/g. It is constructed of 316 stainless steel in a welded, hermetic case with full electrical ground isolation. The high reliability of the K-SHEAR design is supported by a two-year warranty. This industrial accelerometer is manufactured by an ISO-9001 Certified company. Kistler Instrument Corporation, Amherst, NY.

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Software Products

The 38th edition of the Dynacomp Software Catalog is available. Over 220 new products have been added, with additions in almost all categories. The largest increases have been in the business, education (math and science), and engi-

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